

Application Serial No. 09/704,807  
Reply to Office Action of July 29, 2004

PATENT  
Docket: CU-2377

### **Amendments To The Claims**

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

#### **Listing of claims:**

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1-21. (cancelled)

22. (original) A communication unit for communicating data packets to another communication unit on a common communication channel in a distributed multiple access wireless communication system, the communication unit comprising:

- a) a data input for receiving at least one data packet for transmission to the another communication unit;
- b) a quality of service (QOS) input for receiving at least one quality of service parameter, wherein the at least one QOS parameter is associated with the at least one data packet;
- c) a wireless receiver coupled to receive incoming control and data packets on the common communication channel, and having an output for providing the control and data packets;
- d) a decoder having an input coupled to the output of the wireless receiver for receiving the incoming control and data packets, the decoder having a first output for providing the incoming control packets, and having a second output coupled to provide the incoming data packets to a data output;
- e) a controller coupled to the QOS input, the controller having an input coupled to the first output of the decoder for receiving incoming control packets, the

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- controller for generating outgoing control packets in accordance with the at least one QOS parameter and the incoming control packets, and the controller having an output for providing the outgoing control packets;
- f) an encoder having a first input coupled to the output of the controller for receiving the outgoing control packets, the encoder having a second input coupled to the data input for receiving the at least one outgoing data packet, and the encoder having an output for providing the outgoing control packets and the at least one outgoing data packet; and
- g) a transmitter having an input coupled to the output of the encoder for receiving the outgoing control packets and the at least one outgoing data packet, and the transmitter having an output adapted to transmit the outgoing control packets and the outgoing at least one data packet on the common communication channel.

23. (original) A communication unit in accordance with claim 22 wherein the at least one QOS parameter comprises perceived QOS parameters.

24. (original) A communication unit in accordance with claim 23 wherein the perceived QOS parameters include number of packets lost in prior transmissions to the another communication unit.

25. (original) A communication unit in accordance with claim 23 wherein the perceived QOS parameters include ratio of numbers of data packets lost in prior transmissions to the another communication unit to number of data packets sent.

26. (original) A communication unit in accordance with claim 22 wherein the wireless communication unit comprises a radio frequency communication unit.

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27. (original) A communication unit in accordance with claim 22 wherein the decoder comprises a control packet detector for detecting the incoming control packets.
28. (original) A communication unit in accordance with claim 22 wherein the controller comprises a control packet decoder for determining transmission parameters from the incoming control packets.
29. (original) A communication unit in accordance with claim 22 wherein the controller comprises a control packet generator for determining which of a plurality of control packets to generate, and for determining at least one transmission parameter for inclusion in at least one of the generated control packets.
30. (original) A communication unit in accordance with claim 22, wherein the controller comprises a translator for translating the at least one QOS parameter into at least one transmission parameter.